

## CLAIMS

What is claimed is:

1. A self-canceling turn signal comprising:  
an inner wheel rotating at an inner velocity;  
an outer wheel rotating at an outer velocity;  
a differential signal substantially proportional to a difference between said inner and outer velocities; and  
a turn signal responsive to said differential signal, said turn signal signaling a turn while said differential signal is greater than a predetermined differential signal.
2. The self-canceling turn signal of claim 1, wherein said inner wheel is determined by a direction of the turn signal.
3. The self-canceling turn signal of claim 1, wherein said turn signal signals a turn for a predetermined period of time after said differential signal falls below said predetermined differential signal.
4. The self-canceling turn signal of claim 1, wherein said turn signal is canceled when said differential signal falls below said predetermined differential signal.
5. The self-canceling turn signal of claim 4, wherein said cancellation of said turn signal is deferred for a predetermined period of time after said differential signal falls below said predetermined differential signal.
6. The self-canceling turn signal of claim 4, comprising further a rate of change signal proportional to a rate of change of said outer velocity relative to said inner velocity, said rate of change signal having a sign;  
wherein said cancellation of said turn signal is deferred while said sign is positive.

7. The self-canceling turn signal of claim 4, comprising further a rate of change signal proportional to a rate of change of said outer velocity relative to said inner velocity;

wherein said cancellation of said turn signal is deferred while said rate of change signal is greater than a predetermined rate of change signal.

8. The self-canceling turn signal of claim 2, wherein said turn signal is canceled after said turn signal is asserted by a driver for a period of time longer than a predetermined period of time.

9. A method of self-canceling a turn signal comprising:  
measuring an inner rotational velocity of an inner wheel;  
measuring an outer rotational velocity of an outer wheel;  
comparing a difference between said inner and outer velocities to a predetermined difference; and

canceling a turn signal if said difference is less than said predetermined difference.

10. The method of self-canceling a turn signal of claim 9, comprising further signaling a turn while said difference is greater than said predetermined difference.

11. The method of self-canceling a turn signal of claim 9, comprising further deferring said cancellation of said turn signal for a predetermined period of time after said difference falls below said predetermined difference.

12. The method of self-canceling a turn signal of claim 9, comprising further:  
measuring a rate of change of said outer velocity relative to said inner velocity;

measuring a sign of said rate of change; and

deferring said cancellation of said turn signal while said sign is positive.

13. The method of self-canceling a turn signal of claim 9, comprising further:  
measuring a rate of change of said outer velocity relative to said inner  
velocity; and

deferring said cancellation of said turn signal while said rate of change is  
greater than a predetermined rate of change signal.

14. The method of self-canceling a turn signal of claim 9, comprising further:  
canceling said turn signal after said turn signal has been asserted by a driver  
for  
a period of time longer than a predetermined period of time.

15. A system of self-canceling a turn signal comprising:  
means for measuring an inner rotational velocity of an inner wheel;  
means for measuring an outer rotational velocity of an outer wheel;  
means for comparing a difference between said inner and outer velocities to a  
predetermined difference; and  
means for canceling a turn signal if said difference is less than said  
predetermined difference.

16. The system of self-canceling a turn signal of claim 15, comprising further  
means for signaling a turn while said difference is greater than said predetermined  
difference.

17. The system of self-canceling a turn signal of claim 15, comprising further  
means for deferring said cancellation of said turn signal for a predetermined period  
of time after said difference falls below said predetermined difference.

18. The system of self-canceling a turn signal of claim 15, comprising further:  
means for measuring a rate of change of said outer velocity relative to said  
inner velocity;

means for measuring a sign of said rate of change; and  
means for deferring said cancellation of said turn signal while said sign is positive.

19. The system of self-canceling a turn signal of claim 15, comprising further:  
means for measuring a rate of change of said outer velocity relative to said inner velocity; and

means for deferring said cancellation of said turn signal while said rate of change is greater than a predetermined rate of change signal.

20. The system of self-canceling a turn signal of claim 15, comprising further:  
means for canceling said turn signal after said turn signal has been asserted by a driver for a period of time longer than a predetermined period of time.